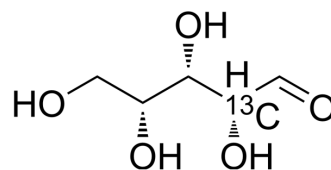


Xylose-2-¹³C

Cat. No.:	HY-N0537S3
CAS No.:	131771-69-2
Molecular Formula:	C ₄ ¹³ CH ₁₀ O ₅
Molecular Weight:	151.12
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (330.86 mM; Need ultrasonic and warming)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	6.6173 mL	33.0863 mL	66.1726 mL	
5 mM	1.3235 mL	6.6173 mL	13.2345 mL	
10 mM	0.6617 mL	3.3086 mL	6.6173 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Xylose-2-¹³C is the ¹³C labeled Xylose.

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Wang XX, et al. The implementation of high fermentative 2,3-butanediol production from xylose by simultaneous additions of yeast extract, Na₂EDTA, and acetic acid. *N Biotechnol.* 2015 Aug 3.;Bingyin Peng, et al. Bacterial xylose isomerases from the mammal
- [2]. Peng B, et al. Bacterial xylose isomerases from the mammal gut Bacteroidetes cluster function in *Saccharomyces cerevisiae* for effective xylose fermentation. *Microb Cell Fact.* 2015 May 17;14:70.
- [3]. Wang XX, et al. The implementation of high fermentative 2,3-butanediol production from xylose by simultaneous additions of yeast extract, Na₂EDTA, and acetic acid. *N*

Caution: Product has not been fully validated for medical applications. For research use only.

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